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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/542,042	03	/31/2000	Jae-yoon Sim	SEC.701	4063
7	590	08/29/2003			
Jones Volenti			EXAMINER KUMAR, PANKAJ		
12200 Sunrise Suite 150	Valley D	rive			
Reston, VA 20191				ART UNIT	PAPER NUMBER
		•	•	2631	
				DATE MAILED: 08/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/542,042	SIM ET AL.				
	Office Action Summary	Examiner	Art Unit				
	·	Pankaj Kumar	2631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)⊠	Posponsive to communication(s) filed on 21 A	Acroh 2000					
اطرا [2a]	Responsive to communication(s) filed on <u>31 M</u> This action is FINAL . 2b) Thi	is action is non-final.					
3)□	••		resocution as to the morits in				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠	4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	Claim(s) <u>1-10 and 16-22</u> is/are allowed.						
6)⊠							
7)⊠	Claim(s) <u>13-15</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
	on Papers						
·	The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12)□ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
۵٫۱	1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 3/31/2000 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because a) the reference to ICCSS is meaningless (the acronym ICCSS needs to be spelled out) and b) a reference to textual descriptions of the figures cited and a copy of these descriptions is required. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 11 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhung et al. USPN 5875007.

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4. As per claim 11, Zhung teaches a high frequency equalizer, comprising: a restoring circuit for demultiplexing input data (Zhung fig. 3: 31) into a plurality of input data items (Zhung fig. 3: 32, 33, 36, 37) each having a time difference the same as period of the input data (Zhung fig. 4: time difference between rising and falling edges of 42, 45 and 46 is the same as the period of 41 between its rising and falling edges), restoring lost high frequency components of the plurality of demultiplexed input data items (Zhung figs. 1, 2: 12 is 6.5MHz while 13 is 20.1312MHz), and outputting restored input data items in response to restoring clock signals (Zhung figs. 1, 2 output of 13); and a multiplexer for multiplexing the restored input data items (Zhung figs. 1, 2: 15) and sequentially outputting multiplexed data items one by one as restored input data (Zhung figs. 1, 2: output of 15), in response to the restoring clock signals (Zhung figs. 1, 2: 15 is in response to 110 and/or 13 since 15's input is through 13).

As per claim 12, Zhung teaches a high frequency equalizer, as recited in claim 11, wherein the restoring circuit comprises: a demultiplexer (Zhung fig. 1: 19, 21, inverse multiplexing or demultiplexing) for demultiplexing the input data (Zhung fig. 2: 103 is part of the entire multiplexed data) into the plurality of input data items (Zhung figs. 1, 2: payload, channel id, CRC and tail are all based on the header) in response to the restoring clock signals (Zhung figs. 1, 2: same 20.1312 clock rate in 110 as in 13); and a plurality of unit restoring circuits operating in response to the corresponding restoring clock signal (Zhung fig. 1: 23, 24, 25), for receiving current input data items of a current time (Zhung fig. 4: time of tail) and previous input data of a previous period of time (Zhung fig. 4: CRC, payload, channel id and header are all before tail in terms of time), restoring the lost high frequency a component of the current input data item (Zhung fig. 1: input data

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went from 6.5 MHz to 20.1312 MHz and thus high frequency component was restored), and outputting restored input data items (Zhung fig. 1: output of 21 and/or 23 and/or 24 and/or 25).

Allowable Subject Matter

- 6. Claims 1-10 and 16-22 are allowed.
- 7. Claims 13, 14 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The art of record does not suggest the respective claim combinations together and nor would the respective claim combinations be obvious with the following underlined portions:
- 9. and a high frequency equalizer for restoring lost high frequency components of input data input through the input and output terminal in response to the restoring clock signals and outputting the restored input data
- 10. and a second current output transistor commonly connected to a third output terminal of the first current amplifying circuit and a fourth output terminal of the second current amplifying circuit, for outputting a second difference current proportional to the difference between the currents output from the third and fourth output terminals.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (703) 305-0194. The examiner can normally be reached on Mon, Tues, Thurs and Fri after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

PK

MOHAMMAD H. GHAYOUR
PRIMARY EXAMINER